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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/885,905	06/20/2001	Guillermo Antonio Franco	062891.0559	4869

7590

02/08/2005

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EXAMINER


NGUYEN, SON XUAN

ART UNIT	PAPER NUMBER
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2664

DATE MAILED: 02/08/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary	Application No. 09/885,905	Applicant(s)  FRANCO, GUILLERMO ANTONIO	
	Examiner SON X. NGUYEN	Art Unit 2664	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 6/20/2001.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 8-18 and 20-25 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☒ Claim(s) 1-7 and 19 is/are allowed.
- 6) ☒ Claim(s) 9, 11, 12 and 14-17, 25 is/are rejected.
- 7) ☒ Claim(s) 10, 13, 18 and 20-24 is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 20 June 2001 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|--|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413)
Paper No(s)/Mail Date. _____ |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
Paper No(s)/Mail Date _____ | 6) <input type="checkbox"/> Other: _____ |

DETAILED ACTION

Claim Objections

1. Claims 20-24 are objected to because of the following informalities: They are depending on claims that are not related. Appropriate correction is required.

Claim Rejections - 35 USC § 102

2. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

3. Claims 8-9, 11-12, 14-17, 25 are rejected under 35 U.S.C. 102(b) based upon a public use or sale of the invention U.S 5,361,256 participated by Willibald Doeringer et al. hereinafter referred to as Doeringer.

Regarding claim 8, Doeringer discloses method transmitting data to multiple destinations comprising:

receiving a data portion (**Gateway A receives the multicast packet from Sub network W; See lines 24-25 of column 10 and Fig. 3);**

determining a first destination the data portion (**Gateway A determines a first destination, the next hop Gateway B; See lines 29-30 of column 10);**

assigning a first tag to the data portion, the first tag identifying a second destination for the data portion (**Gateway A assigns a first tag, target sub network X or Z; Target sub network X or Z implicitly identifies the next hop for multicast packet; See lines 29-34 of column 10**);

storing the data portion and the first tag memory (**Gateway inherently has memory unit, buffer, to store received multicast packet**);

reading data portion and tag from memory and transmitting the data portion to the first destination (**Gateway A sends multicast packet to gateway B; See lines 30-31 of column 10**);

determining, based the first tag, second tag that identifies a third destination for the data portion (**Gateway A determines a second tag, destination G; Destination G implicitly identifies the final destination for multicast packet; See lines 29-34 of column 10**);

and storing the second tag in association with the stored data portion (**Multicast packet with destination field G is saved Multicast Routing Table MURT; See lines 27-28 of column 10**).

Regarding claim 9, Doeringer discloses receiving a data portion comprises receiving an ATM cell at an ATM switch (**Data packet**).

Regarding claim 11, Doeringer discloses assigning first tag to the data portion comprises associating the first destination with the first tag (**Data packet is associated with target sub networks field; See lines 31-34 of column 10**).

Regarding claim 12, Doeringer discloses associating the first destination with the first tag comprises accessing list associating a current destination for the data portion with a subsequent destination for the data portion (**Multicast Routing Table MURT; See line 27-28 of column10**).

Regarding claim 14, Doeringer discloses destination is represented by a memory address (**Gateway B is memory address in Forwarding Information Base FBI; See lines 29-30**).

Regarding claim 15, Doeringer discloses storing the data portion and the first tag in memory comprises storing the first tag as part of a header of the data portion (**Data packet has target sub networks field; See lines 31-34 of column 10**).

Regarding claim 16, Doeringer discloses determining, based the first tag, second tag that identifies third destination for the data portion comprises accessing a multicast link table (**Multicast Routing Table MURT**).

Regarding claim 17, Doeringer discloses the first destination is represented by a memory address (**Gateway B is memory address in Forwarding Information Base FBI; See lines 29-30**).

Regarding claim 25, Doeringer discloses 25. A system for transmitting data to multiple destinations comprising:

a means for receiving a data portion (**Gateway A receives the multicast packet from Sub network W; See lines 24-25 of column 10 and Fig. 3**);

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a means for determining a first destination for the data portion (**Gateway A determines a first destination, the next hop Gateway B; See lines 29-30 of column 10**);

a means for assigning a first tag to the data portion, the first tag indicative of a second destination for the data portion (**Gateway A assigns a first tag, target sub network X or Z; Target sub network X or Z implicitly identifies the next hop for multicast packet; See lines 29-34 of column 10**);

a means for storing the data portion and the first tag in memory (**Gateway inherently has memory unit, buffer, to store received multicast packet**);

a means for reading the data portion and tag from memory and transmitting the data portion to the first destination (**Gateway A sends multicast packet to gateway B; See lines 30-31 of column 10**);

a means for determining, based on the first tag, a second tag that identifies a third destination for the data portion (**Gateway A determines a second tag, destination G; Destination G implicitly identifies the final destination for multicast packet; See lines 29-34 of column 10**);

and a means for storing the second tag in association with the stored data portion (**Multicast packet with destination field G is saved Multicast Routing Table MURT; See lines 27-28 of column 10**).

Allowable Subject Matter

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4. Claims 1-7 and 19 are allowed.

5. The following is an examiner's statement for reasons for allowance:

Claims 1 and 19 are allowable over the prior art of record since the cited references taken individually or in combination fails to particularly disclose **(a) transmitting a copy of the data portion to the current destination; (b) updating the current destination to be the next destination and updating the next destination tag to have the value of a new next destination tag, the new destination tag indicative of a new next destination; (c) after updating, storing the next destination tag in association with the stored data portion; and repeating steps (a), (b), and (c) at least once.** It is noted that the closest prior art, Doeringer et al. (US Patent 5,361,256) shows a method and a system for transmitting a message or data packet from a single sender to a plurality, i.e. a group of receivers, usually called multicasting, within a conventional unicast transmission network. However, Ors et al. fails to disclose or render obvious the above underlined limitations as claimed.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

6. Claims 10, 13, 18 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Conclusion

7. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

a) Cukier at el. (U.S 6,101,187) Method and system for multicasting cells in an ATM protocol adapter.

b) Tang at el. (U.S 6,839,348) System and method for distributing multicasts in virtual local area networks.

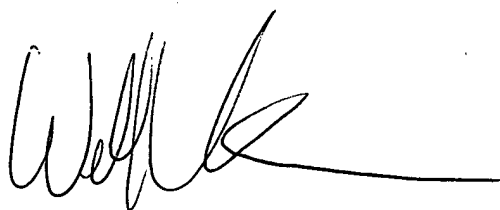
c) Dinstan at el. (U.S 6,654,371) Method and apparatus for forwarding multicast data by relaying IGMP group membership.

8. Any inquiry concerning this communication or earlier communications from the examiner should be directed to SON X. NGUYEN whose telephone number is 571-272-6048. The examiner can normally be reached on 8 AM -5 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Ken Vanderpuye can be reached on 571-272-3078. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

A handwritten signature in black ink, consisting of stylized cursive letters followed by a long horizontal line.